



ENERG

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Indoor unit

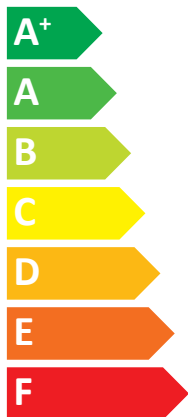
EHST20C-**D

Outdoor unit

PUMY-P112VKM5(-BS)



A+



A

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text '40 dB'. The bottom icon shows a speaker outside a house with the text '69 dB'.



A legend for power consumption in kW, represented by three colored squares: dark blue for 08 kW, medium blue for 11 kW, and light blue for 10 kW.

2019

811/2013

BH79V012K10

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Portugués	Ελληνικά
	suomi	Čeština	Български	Polski	-
1	Outdoor unit butenunit Ulkoyksikkö	Außengerät Utomhusenhet	unità esteriore Utdensers enhed	unità esterna Utdensers enhed	unidad exterior Εξωτερική μονάδα
	Indoor unit sisäyksikkö	Innengerät Inomhusenhet	unità interieure Indensers enhed	unità interna unidade interior	unidad interior Εσωτερική μονάδα
3	Medium-temperature application middertemperatuur-toepassing keskilämpötilan sovellus	Mitteltemperaturanwendung mediumtemperaturapplikation	l'application à moyenne température middelttemperaturanvendelsen	le applicazioni a media temperatura a aplicação a média temperatura	la aplicación de media temperatura η εφαρμογή σε μέση θερμοκρασία
4	Low-temperature application lage temperatuur-toepassing matalalämpötilan sovellus	Niedertemperaturanwendung lågtemperaturapplikation	l'application à basse température lavtemperaturanvendelsen	le applicazioni a bassa temperatura a aplicação a baixa temperatura	la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
5	Seasonal space heating energy efficiency class de seizoengebonden energie-efficiëntieklasse voor ruimteverwarming	die Jahreszeitbedingte Raumheizungs-Energieeffizienzklasse für die Wärmwasserbereitungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière pour le chauffage des locaux	la classe di efficienza energetica stagionale del riscaldamento d'ambiente	la clase de eficiencia energética estacional de calefacción
	Ilälmämykseen kausittainen energiatehokkuusluokka	Ilälmämykseen kausittainen energiatehokkuusluokka	klassen for årsvirkningsgrad ved rumopvarmning	A classe de eficiência energética do aquecimento ambiente sazonal	η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου
6	Water heating energy efficiency class de energie-efficiëntieklasse voor waterverwarming vedenlämmityksen energiatehokkuusluokka	die Wasseraufbereitungs-Energieeffizienzklasse für die Warmwasserbereitungs-Energieeffizienz	la classe d'efficacité énergétique pour le chauffage de l'eau	la classe de efficienza energetica del riscaldamento dell'acqua	la clase de eficiencia energética del caudero de agua
	Rated heat output under average climate conditions de nominale warmteafgifte (onder gemiddelde klimaatomstandigheden)	die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen de nominale avgivna värmeeffekten (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potenza termica nominale (in condizioni climatiche medie)	la potencia calórica nominal (en condiciones climáticas medias)
7	Rated heat output under average climate conditions de nominale warmteafgifte (onder gemiddelde klimaatomstandigheden)	die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen de nominale avgivna värmeeffekten (under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia calórica nominal (en condiciones climáticas medias)	η ονομαστική θερμική ισχύς (ούπό μέσης κλιματικής συνθήκης)
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba energije za průmerných klimatických podmínek	for rumopvarmning, årlig energiförbrukning (vid genomsnittliga klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia (in condizioni climatiche medie)	para calentar espacios, el consumo anual de energía (en condiciones climáticas medias)
8	For water heating, annual electricity consumption under average climate conditions	for die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	for le chauffage de l'eau, le consommation annuelle d'électricité (dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia (in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad (en condiciones climáticas medias)
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba elektrické energie za průmerných klimatických podmínek	for rumopvarmning, årlig energiförbrukning (vid genomsnittliga klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia (in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad (en condiciones climáticas medias)
9	For water heating, annual electricity consumption under average climate conditions	for die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	for le chauffage de l'eau, le consommation annuelle d'électricité (dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia (in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad (en condiciones climáticas medias)
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba elektrické energie za průmerných klimatických podmínek	for rumopvarmning, årlig energiförbrukning (vid genomsnittliga klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia (in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad (en condiciones climáticas medias)
10	Seasonal space heating energy efficiency under average climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux (dans les conditions climatiques moyennes)	l'efficienza energetica stagionale di riscaldamento d'ambiente (in condizioni climatiche medie)	la eficiencia energética estacional de calefacción (en condiciones climáticas medias)
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning (under genomsnittliga klimatförhållanden)	A eficiência energética do aquecimento ambiente sazonal (em condições climáticas médias)	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου (ούπό μέσης κλιματικής συνθήκης)
	Water heating energy efficiency under average climate conditions de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	die Wasseraufbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'efficienza energetica di riscaldamento dell'acqua (in condizioni climatiche medie)	la eficiencia energética del caudero de agua (en condiciones climáticas medias)
11	Water heating energy efficiency under average climate conditions de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	die Wasseraufbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'efficienza energetica di riscaldamento dell'acqua (in condizioni climatiche medie)	la eficiencia energética del caudero de agua (en condiciones climáticas medias)
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning (under genomsnittliga klimatförhållanden)	A eficiência energética do aquecimento ambiente sazonal (em condições climáticas médias)	η ενεργειακή απόδοση θέρμανσης νερού (ούπό μέσης κλιματικής συνθήκης)
	Sound power level L _{WA} indoor de geluidsvermogensniveau L _{WA} binnen	die Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	il livello di potenza sonora L _{WA} all'interno	el nivel de potencia acústica L _{WA} en interiores
12	Sound power level L _{WA} indoor de geluidsvermogensniveau L _{WA} binnen	die Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	il livello di potenza sonora L _{WA} all'interno	el nivel de potencia acústica L _{WA} en interiores
	Week only during off-peak hours weken uitsluitend in de daluren	das Wochenende während der Schwachlastzeiten	fonctionnement uniquement pendant les heures creuses	funzione soltanto durante le ore morte	funcionamiento solamente durante las horas de baja demanda
13	Week only during off-peak hours weken uitsluitend in de daluren	das Wochenende während der Schwachlastzeiten	fonctionnement uniquement pendant les heures creuses	funzione soltanto durante le ore morte	funcionamiento solamente durante las horas de baja demanda
	Rated heat output under colder climate conditions de nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potenza termica nominale, in condizioni climatiche più fredde	la potencia calórica nominal en condiciones climáticas más frías
14	Rated heat output under colder climate conditions de nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus froides	la potenza termica nominale, in condizioni climatiche più fredde	la potencia calórica nominal en condiciones climáticas más frías
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba energije za običajnejših klimatickih podmínek	for rumopvarmning, årlig energiförbrukning (under källare klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
15	Rated heat output under warmer climate conditions de nominale warmteafgifte, onder warmere klimaatomstandigheden	die Wärmenennleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potenza termica nominale, in condizioni climatiche più calde	la potencia calórica nominal en condiciones climáticas más calidas
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba energije za običajnejših klimatickih podmínek	for rumopvarmning, årlig energiförbrukning (under källare klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
16	For space heating, annual energy consumption under colder climate conditions	for die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen	for le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba energije za običajnejših klimatickih podmínek	for rumopvarmning, årlig energiförbrukning (under källare klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías
17	For space heating, annual energy consumption under warmer climate conditions	for die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	for le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde	para calentar espacios, el consumo anual de energía en condiciones climáticas más calidas
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba energije za običajnejših klimatickih podmínek	for rumopvarmning, årlig energiförbrukning (under källare klimatförhållanden)	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde	para calentar espacios, el consumo anual de energía en condiciones climáticas más calidas
18	For water heating, annual energy consumption under colder climate conditions	for die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen	for le chauffage de l'eau, le consommation annuelle d'électricité, dans les conditions climatiques plus froides	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba elektrické energie za običajnejših klimatických podmínek	for rumopvarmning, årlig elförbrukning (under källare klimatförhållanden)	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
19	For water heating, annual energy consumption under warmer climate conditions	for die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	for le chauffage de l'eau, le consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más calidas
	Ilälmämykseen vuotuinen energiankulutus (keskimääräisissä ilmastolo-suhteissa)	pro vyläpöni – ročni spotreba elektrické energie za običajnejših klimatických podmínek	for rumopvarmning, årlig elförbrukning (under källare klimatförhållanden)	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde	para calentar agua, el consumo anual de electricidad en condiciones climáticas más calidas
20	Seasonal space heating energy efficiency under colder climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più fredde	la eficiencia energética estacional de calefacción en condiciones climáticas más frías
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning under källare klimatförhållanden	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frías	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου (ούπό ψυχρότερες κλιματικές συνθήκες)
	Water heating energy efficiency under colder climate conditions de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	die Wasseraufbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde	la eficiencia energética del caudero de agua en condiciones climáticas más frías
21	Seasonal space heating energy efficiency under warmer climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	die Jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più calde	la eficiencia energética estacional de calefacción en condiciones climáticas más calidas
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning under varmare klimatförhållanden	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου (ούπό θερμότερες κλιματικές συνθήκες)
	Water heating energy efficiency under colder climate conditions de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	die Wasseraufbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde	la eficiencia energética del caudero de agua en condiciones climáticas más frías
22	Water heating energy efficiency under colder climate conditions de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	die Wasseraufbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde	la eficiencia energética del caudero de agua en condiciones climáticas más frías
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning under källare klimatförhållanden	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frías	η ενεργειακή απόδοση της θέρμανσης νερού (ούπό ψυχρότερες κλιματικές συνθήκες)
23	Water heating energy efficiency under warmer climate conditions de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	die Wasseraufbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde	la eficiencia energética de caudero de agua en condiciones climáticas más calidas
	Ilälmämykseen kausittainen energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	sezonnin energiatehokkuus (keskimääräisissä ilmastolo-suhteissa)	årsvirkningsgraden ved rumopvarmning under varmare klimatförhållanden	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes	η ενεργειακή απόδοση της θέρμανσης νερού (ούπό θερμότερες κλιματικές συνθήκες)
24	Sound power level L _{WA} outdoor de geluidsvermogensniveau L _{WA} buiten	die Schalleistungspegel L _{WA} im Freien	le niveau de puissance acoustique L _{WA} à l'extérieur	il livello di potenza sonora L _{WA} all'esterno	el nivel de potencia acústica L _{WA} en exteriores
	äänitehokkuus L _{WA} ulkona	äänitehokkuus L _{WA} ulkona	nyaeta na zvučkovata močnosť L _{WA} na otvrtom	razmnoženie moči akustycznej L _{WA} na zewnątrz	η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUMY-P112VKM5
	Indoor unit:	EHST20C-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	121	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	9.9	kW	T _j = - 7 °C	COP _d	1.80	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6	kW	T _j = + 2 °C	COP _d	3.05	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	4.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	6.9	kW	T _j = +12 °C	COP _d	5.83	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	9.9	kW	T _j = bivalent temperature	COP _d	1.80	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.58	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	7387	kWh
Rated air flow rate, outdoors		6600	m ³ /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q _{elec}	4.600	kWh
Annual electricity consumption	AEC	1019	kWh
Water heating energy efficiency	η_{wh}	106	%

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.2	kW	T _j = - 7 °C	COP _d	2.74	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	6	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	6.1	kW	T _j = + 7 °C	COP _d	5.61	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	7.3	kW	T _j = +12 °C	COP _d	7.22	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.2	kW	T _j = bivalent temperature	COP _d	2.74	-
T _j = operation limit temperature	P _{dh}	7.9	kW	T _j = operation limit temperature	COP _d	1.72	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	1.5	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	5341	kWh
Rated air flow rate, outdoors		6600	m ³ /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q _{elec}	4.600	kWh
Annual electricity consumption	AEC	1019	kWh
Water heating energy efficiency	η_{wh}	106	%

Contact details	
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P112VKM5
	Indoor unit:	EHST20C-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	106	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.9	kW	T _j = - 7 °C	COP _d	2.24	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	4.7	kW	T _j = + 2 °C	COP _d	3.23	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	4.19	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	6.9	kW	T _j = +12 °C	COP _d	5.69	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.7	kW	T _j = bivalent temperature	COP _d	1.50	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	8.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	6600	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)				
Annual energy consumption	Q _{HE}	7263	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		L		η_{wh}	77	%	
Daily electricity consumption	Q _{elec}	6.200	kW/h				
Annual electricity consumption	AEC	1374	kW/h				

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P112VKM5
	Indoor unit:	EHST20C-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.9	kW	T _j = - 7 °C	COP _d	2.77	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 2 °C	COP _d	4.18	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = + 7 °C	P _{dh}	6.1	kW	T _j = + 7 °C	COP _d	5.34	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	7.2	kW	T _j = +12 °C	COP _d	6.72	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.7	kW	T _j = bivalent temperature	COP _d	1.69	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.69	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	8.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	6600	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)				
Annual energy consumption	Q _{HE}	5844	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		L		η_{wh}	77	%	
Daily electricity consumption	Q _{elec}	6.200	kW/h				
Annual electricity consumption	AEC	1374	kW/h				

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P112VKM5
	Indoor unit:	EHST20C-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10.2	kW	T _j = + 2 °C	COP _d	1.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	2.97	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	6.7	kW	T _j = +12 °C	COP _d	5.04	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.2	kW	T _j = bivalent temperature	COP _d	1.51	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	3746	kWh
Rated air flow rate, outdoors		6600	m ³ /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q _{elec}	4.100	kWh
Annual electricity consumption	AEC	910	kWh
Water heating energy efficiency	η_{wh}	119	%

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P112VKM5
	Indoor unit:	EHST20C-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	208	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	11.2	kW	T _j = + 2 °C	COP _d	2.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.2	kW	T _j = + 7 °C	COP _d	4.85	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	7.2	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	11.2	kW	T _j = bivalent temperature	COP _d	2.51	-
T _j = operation limit temperature	P _{dh}	7.9	kW	T _j = operation limit temperature	COP _d	1.63	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	2830	kWh
Rated air flow rate, outdoors		6600	m ³ /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q _{elec}	4.100	kWh
Annual electricity consumption	AEC	910	kWh
Water heating energy efficiency	η_{wh}	119	%

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.